#### L 2606B-66 ACC NR. AP6003449

The characteristics of atmospheric absorption of linear radiation of heated gases (HO vapous) in the near-infrared region of the spectrum were examined in a report by E. S. Kuznetsova and M. V. Podkladenko.

The latter also delivered a paper on the limits of applicability of schermatic models of absorption bands in describing experimental results.

Investigations of the absorption by a horizontal atmospheric layer of the radiation of a slightly heated absolutely black radiator were reported by B. P. Kozyrev and A. P. Buznikov (Leningrad Electrical Engineering Institute imeni V. I. Ul'yanov). Ye. P. Barashkov delivered a paper on the change of the spectral composition of long-wave ascending fluxes in the lower layers of the troposphere under the influence of absorption. A theoretical investigation of the influence on the absorption-line profile of strong absorption and a strong electromagnetic field was made by L. I. Nesmelova, S. D. Tvorogov, N. I. Ippolitov, and A. A. Orlov (Siberian Physicotechnical Institute).

Other reports read were: K. P. Vasilevskiy, V. A. Kazbanov, and T. Ye. Derviz, on the results of experimental investigations of the spectrum of CO<sub>2</sub> absorption in the 2.06- $\mu$  region and the patterns of distribution of optical cross sections for individual lines of a band; V. I. Dianov-Klokov

Cord L/7

1. 26068-66 ACC NRI APEOD3449 16 Unstitute of Physics of the Atmosphere), on the expected influence of [O<sub>2</sub>]<sub>2</sub> and [O<sub>2</sub> - N<sub>2</sub>] complexes on the transparency of the atmospheric ground layer in the 0.28-0.235-µ region; V. A. Afanus'yev, A. V. Nevskiy, M. A. Katintsev, and V. G. Naberezhnyy, on the design of an installation, based on the principle of heterodyning, to measure the atmospheric attenuation of a laser beam; Yu. S. Georgiyevskiy, V. I. Dianov-Klokov, S. V. Cychinnikov, and G. D. Turkin (Institute of Physics of the Atmosphera), on the design of instruments to measure the spectral transparency of the atmosphere with automatic compensation for interference caused by atmospheric turbulence. Many reports were on the problem of light scattering in the atmosphere and the theory of multiple light scattering, including, for example, L. M. Romanov (Institute of Physics of the Atmosphere), on radiation transfer in forbidden bands of absorption; O. I. Smoktiy (Leningrad State University), on computing the sphericity of the atmosphere; G. M. Krekov (Siberian Institute), on computing the intensity of light at small angles in the case of large scattering particles; L. M. Romanov, L. I. Koprov, and M. S. Malkevich (Institute of Physics of the Atmosphere), on the influence of scattering in the atmosphere on spectral transparency; L. G. Borovoy (Tomsk State University), on computing a mean field in a scattering medium on the basis of Maxwell equations. N. P. Kalashnikov and M. I.

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Card 5/7

# ACC NR: AP6003449

Cord 6/7

Ryazanov (Moscow Engineering Physics Institute) reported on the use of the quantum mechanical approach to investigate the passage of a narrow beam of light through a scattering medium. A. P. Ivanov (Institute of Physics of the Belorussian Academy of Sciences) reported on the results of an experimental study of a light field in models of strong scattering media. The results of investigating the optical properties of clouds on model media were contained in a report by G. K. Il'ich (Institute of Physics of the Belorussian Academy of Sciences). K. S. Shifrin, A. Ya. Pereliman. and V.G. Eakhtiarov (Main Geophysical Observatory imeni A. I. Voyeykov) described a method of computing the spectra of scattering particles from data on the spectral transparency of the atmosphere and indicated certain criteria for selecting spectral intervals. Yu. S. Lyubovtseva (Institute of Physics of the Armosphere) reported on measurements of light scattering at small angles and on the influence of such scattering on the results of measuring the spectral transparency of the atmosphere. In M. V. Kabanov's (Siberian Institute) work, interference in the case of light scattering at small angles, was investigated. The report of T. P. Toropova (Astrophysical Institute of the Kazakh Academy of Sciences) described a study of the scattering properties of the atmosphere in different spectral regions. G. Sh. Lifshits, V. Ye. Pavlov, and S. N. Milyutin (Astrophysical Institute of the Kazakh Academy of Sciences) used the Ulbricht

# L 25068-66 ACC NR. APEOUSALS light-measuring sphere to investigate pure-light absorption in aerosols. V. K. Sonchit, V. P. Lopasov, and N. A. Chernyavskaya (Siberian Institute) presented a report on the results of measurements of complex indices of water in the 2 to 20 u region. Several reports were presented on investigations of artificial fogs. For example, B. P. Kozyrev and A. V. Mezenov (Leningrad Electrical Engineering Institute) reported on their studies of the attenuation of longwave radiation in artificial fogs for regions of the spectrum from 0.5 to 200 μ. The report of B. P. Kosheleva (Tomsk State University) compared experimental and computational data on the coefficient of radiation attenuation in artificial figs in the 0.42-14-µ region. In these experiments a detailed measurement of the parameters of the microstructure of the fog was made simultaneously. The results of experimental and theoretical investigations of strong fluctuations in light propagation in a turbulent atmosphere were reported by V. I. Tatarskiy, A. S. Garvich, M. Ye. Gracheva (Institute of Physics of the Atmosphere). And, lastly, N. P. Nalimov reported on the effects of atmospheric turbulence on laser communications. [FSB: v.2, no. 3] SUB CODE! CL. 20 SUBM DATE: none

	T. 10.595-67 - M.T(1) - CH - BOURDE (BODE: BE/0362/66/602/005/0191/0500	
	AUTHOR: Georgiyevskiy, Yu. S.	
:	OMG: Institute of Physics of the Atmosphere, AN SSSR (Institut fiziki atmosfery AN SSSR)	
	TITLE: Apparatus for investigating the spectral transparency of the atmosphere with high resolution	
	SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 5, 1966, 494-500	
	TOPIC TAGS: summarpheric transparency, opentrometer	
	in the region 0.37-1.14 $\mu$ m with a resolution of 1-2 $\Lambda$ as described. The apparatus is part of the field apparatus created at the optical test grounds of the Institute of Physics of the Atmosphere near Zvenigorod, designed for multidirectional investigation of the optical properties of the atmosphere. There are two main parts: receiving-recording (a spectral instrument and a recorder) and a measuring parts. The first the first term of the control of the control passes over a field surrounded on a semicarcle of trees, 2-5 m above	
	Card 1/2 UDC: 551.593.52	

L 10295-67

ACC NR: AP7003076

the soil surface. The length of the path can be varied up to 1,300 m.

A DFS-12 spectremeter — double mirror monochromator with flat diffrac-

tion grating — is used (600 lines/nm, working area 140x150 mm). Photo-multipliers are used in the recording. The apparatus can be used either caytime or nighttime. The author thanks G. V. Rozenberg and V. I. Dianov-Klokov for his interest in this work and for his valuable advice. He also thanks V. S. Dudikov and V. Ya. Usachev for assistance in the completion of this work. Orig. art. has: 8 figures. [JPRS: 37,710]

SUB CODE: 04 / SUBM DATE: 02Nov65 / ORIG REF: 001

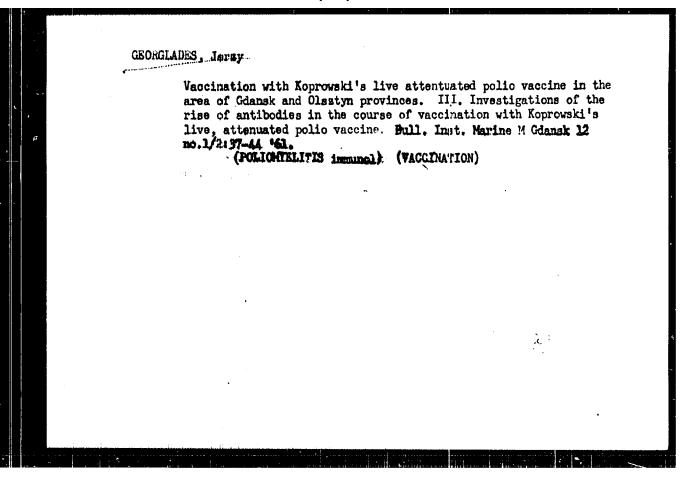
# GEORGJEVIC, E.

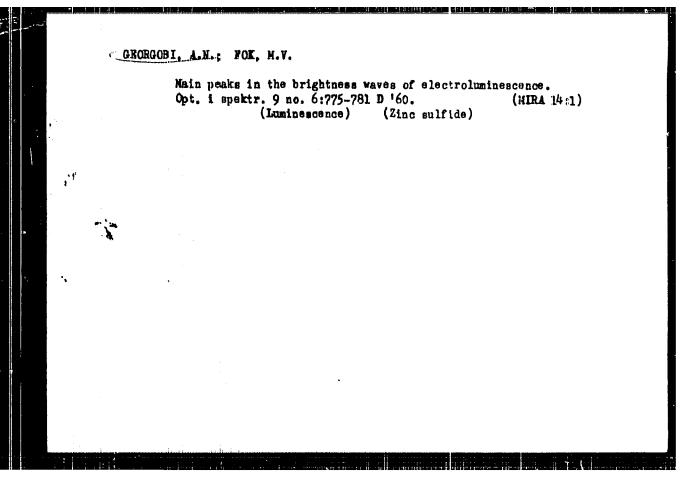
Dr. Lea Schmidt and D. Philips' <u>Granuloze - nova virusna bolest na dudovcu</u>, <u>Hyphantria cumea Drury (Granulose, New Mulberry Virosis Disease, Hyphantria cumea Drury)</u>; a book review. p. 388.

NAROINI SUMAR. (Drustvo sumarskih inzenjera i tennicara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 12, no. 4/6, Apr./June 1958.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1969.

Uncl.





507/51-5-2-11/26

AUTHORS:

Georgobiani, A.N. and Fok, M.V.

TITLE:

Investigation of Relaxational Processes in Electroluminescence (Issledovaniye relaksatsionnykh proteessev pri elektrolyuminestsentsii)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 2, pp 167-171 (USSR)

ABSTAACT:

The authors studied relaxational processes in emission by an electroluminescent capacitor in order to elucidate the role of polarization charge in electroluminescence. This polarization charge is produced in separate grains of the phosphor (surreunded by a dielectric) by the action of the external alternating electric field. The magnitude and distribution of the polarization charge depend on the amplitude of the applied field, rate of change of this field and sometimes on previous history of the capacitor. The polarization charge distorts the field in the capacitor and concentrates it in a certain small region. Thus in an electroluminescent capacitor we have two regions: a region of high-field concentration and a field-free region. To study the processes occurring in these two regions the authors made some measurements on capacitors with 218-01, Al phosphors. All measurements were made using symmetrical trapszoidal pulses of 200 c/s

Card 1/3

SOV/51-5-2-11/26

Investigation of Relaxational Processes in Electrolumines cence

frequency, 300 V amplitude and the pulse-front slope of 1.42 V/µsec. The thickness of the capacitor was 0.2 mm. The authors investigated the form of brightness waves, the ratio between the alternating and constant components of electroluminescence as a function of the form of the trapezoidal pulses, the effect of red and infrared light on the form of brightness waves, and oscillograms of rise curves of electrolumines cence. The 2nS-Cu, Al phosphors used had from 5 x 10-4 to  $3 \times 10^{-3}$  g/g of Q2, and from  $3 \times 10^{-4}$  to  $2 \times 10^{-3}$  g/g of A1. The phosphors were prepared at 1100°C in H23 or at 1000°C in a mixture of HgS and HCl. The following results were obtained. brightness waves had the form shown in Fig 1 (curves 1). in Fig 1 show the applied trapszoidal voltage pulses. (B) Moan brightness of lumines cence depends on the amplitude and frequency of the applied field, and on the slope of the pulse-front (Fig 2). (C) The ratio of the constant and alternating components of electroluminescence depends both on frequency and the slope of the pulse fromt on the applied field and is practically independent of the field amplitude (Fig 3). (D) De-excitation with long-wavelength light has a stronger effect in phosphors which can store large light-sums and in this case only the constant component of electrolumines cance is In phosphors which store shall light-sums red light lowers

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SOV/51-5-2-11/26

Investigation of Relaxational Processes in Blectrolumines cence

also the alternating component. (B) When the alternating field is switched on the constant and alternating components of electroluminescence grow at different rates (the constant component grows more slowly as shown in Fig 4). The authors give the following tentative explanation for the observed behaviour of 2nS-Cu,Al. The field-free region in the capacitor extends throughout most of the capacitor and the region of high field concentration is near the electrodes. The alternative component of electroluminescence arises from liberation and subsequent recombination of electroluminescence is due to processes affecting holes and electrons, which occur in the field-free region. There are 4 figures and 3 Soviet references.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva, AN SSSR (Physics Institute imemi P.N. Lebedev, Academy of Sciences of the U.S.S.R.)

SUHLITTED: September 26, 1957

Card 3/3

1. Phosphors--Luminescence 2. Electromagnetic waves--Polarization

3. Electromagnetic fields--Applications

38052 R \$/051/60/009/006/011/018 E201/E314

24.3500

Georgobiani, A.N. and Fok, M.V. AUTHORS:

TITLE:

Principal Peaks of Blectroluminescent Brightness

Waves

Optika i spektroskopiya, 1960, Vol. 9, No. 6, PERIODICAL:

pp. 775 - 781

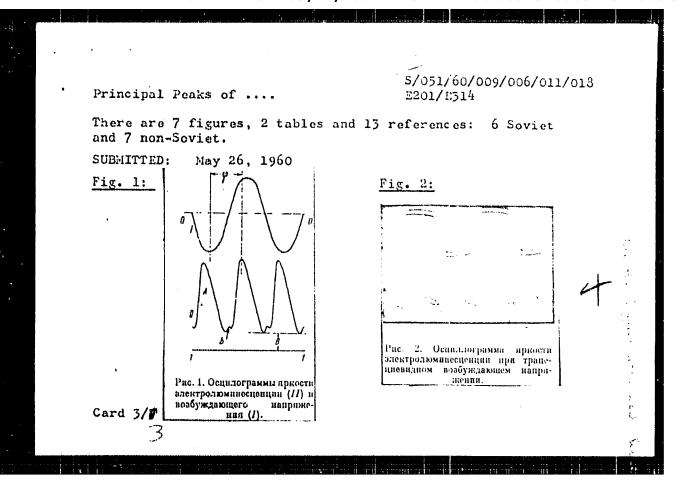
The authors studied EnS:Cu: Al phosphors with 10-3 g-atom/g-mole Cu and 10 g-atom/g-mole Al. An oscillogram of the electroluminescent brightness (Curve II) is shown together with an oscillogram of the exciting sinusoidal voltage (Curve I) in Fig. 1. The brightness consists of an alternating component, known as the brightness wave, and a constant component denoted by B. The brightness wave has a principal peak, denoted by A. during each half-period of the exciting voltage. Under some conditions a subsidiary peak (6) appears in the brightness wave; this peak is usually weaker than the principal peak. The two peaks are resolved better when the exciting voltage waveform is trapezoidal (Figs. 2, 3). Fig. 4 shows positions of the principal brightness peak as a function of the Card 1/7

5/051/60/009/006/011/018 E201/E314

Principal Peaks of ....

amplitude of voltage pulses. Figs. 5, 6, 7 give the "critical voltage" as a function of the front rise-time of voltage pulses (Fig. 5), and as a function of temperatures (Figs. 6 and 7). By the critical voltage the authors mean the voltage which empties even the deepest localization levels in the phosphor. The form of the brightness waves showed that, at high applied voltages, electrons were liberated primarily by electric fields. At low applied voltages electrons were freed by collision ionization (at low temperatures) or by tunnelling through potential barriers (at high temperatures). The optical phonon energies and the energy depths of local levels in ZnS were found from the values of the critical field intensities at which complete liberation of trapped electrons occurred. The optical phonon energies found in this way were in good agreement with values deduced from the vibrational structure of the "edge luminescence" spectrum. The level depths agreed with the donor depths found from the equilibrium density of free electrons in ZnS:Cu crystals.

Card 2/



GEORGOBIANI, A. N.

Cand Phys-Math Sci - (diss) "Kinetics of electro-luminescence of ZnS-Cu (Destrio effect)." Chernovtsy, 1961. 9 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Chernovits State Univ); 150 copies; price not given; (KL, 7-61 sup, 218)

GEORGOBIANI, A.M.; FOK, M.V.

Process determining the voltage dependence of the mean brightness of electroluminescence. Opt. i spektr. 10 no.2:188-193 F 161.

(MIRA 14:2)

(Lamine scence)

(MIRA 14:10)

Dependence of the phase of brightness waves of electroluminescence on the parameters of the exciting voltage. Opt.i spektr. 11

no.1:93-97 Jl '61.

(Luminescence)

GEORGOBIANI, A.N.

Excitation of electroluminescence in zinc sulfide. Opt. i spektr. 11 no.3:426-428 S '61. (MIRA 14:9) (Luminescence) (Zinc sulfide)

S/051/62/012/006/009/020 E036/E418

AUTHOR:

Georgobiani, A.N.

TITLE:

The influence of the bond type of crystal phosphors

on their electroluminescent ability

PERIODICAL: Optika i spektroskopiya, v.12, no.6, 1962, 746-749

A qualitative comparison is given of the ability of materials with ionic and with covalent type bonding to display electroluminescence. To produce electroluminescence it is necessary that there are mobile charges in the crystal which are accelerated by the applied field to excite the radiation by collision processes. The motion of the charged carriers is impeded particularly by lattice vibrations. In ionic crystals. in which alternate atoms are differently charged, the local field, due to the atomic vibrations, greatly exceeds the applied field and reduces the carriers mean free path to the order of the lattice constant, and they cannot acquire sufficient energy to cause ionization or excitation by collision. Local fields are much less in covalent bond crystals and the mean free paths are several times larger; the carriers can acquire large energies Card 1/2

S/051/62/012/006/009/020 E036/E418

The influence of the bond type ...

to give impact ionization. The covalent type crystals are also more likely to support large fields in limited regions of the crystal because of the ease of formation of space charge. The advantages of covalent bonding in supporting electroluminescence are illustrated by its non-occurrence in crystals with more than 50% ionic bonding. The possession of other luminescent properties is also required for a material to show electroluminescence and thus it is not expected in the elementary semiconductors which have no ionic bonding. There is I table.

SUBMITTED: April 8, 1961

Card 2/2

5/051/62/012/006/020/020

E039/E420

AUTHORS:

Georgobiani, A.N., Golubeva, N.P.

TITLE:

The excitation of electroluminescence in alkali-halide

compounds

PERIODICAL: Optika i spektroskopiya, v.12, no.6, 1962, 802-803

The influence of the type of bond structure on the excitation of electroluminescence discussed in a previous paper Calculations are made on the excitation of electroluminescence in alkali-halides and compared with experimental results obtained for thin (  $\sim$  1  $\mu$  ) films of CsI·Tl, prepared by The sublimated mixture contained sublimation in a vacuum. A layer of aluminium formed a secondary 94% CsI and 6% TlI. electrode and a film of barium titanate was used as a protective Excitation was accomplished by the application of about 120 V at 20 kc/s and the electroluminescent spectrum compared with the luminescent spectrum excited by radiation from a ΥΦΟ (UFO) lamp using a YΦC-2 (UFS-2) filter. The two spectra are very similar. These CsI.Tl films are electroluminescent in fields of about 2 x  $10^6$  V/cm without breakdown. In thicker film In thicker films Card 1/2

S/051/62/012/006/020/020 E039/E420

The excitation of ...

avalanche breakdown occurs with fields of 3 x 10<sup>5</sup> V/cm. It is suggested that this method can be used to excite electroluminescence in any of the alkali-halides; this would lead to the necessity of preparing thicker layers and using larger fields, hence increasing the experimental difficulties. There is 1 figure.

SUBMITTED: January 29, 1962

Card 2/2

301 31.3 nd 3300

1:2194 5/051/62/013/004/009/023 E039/E491

AUTHORS:

Georgobiani, A.N., L'vova, Ye.Yu., Fok, M.V.

TITLE:

Absorption of energy in electroluminescence

PERIODICAL: Optika i spektroskopiya, v.13, no.4, 1962, 564-568

Measurements are made of the energy absorbed from the electric field applied to an electroluminescent condenser when a sinusoidal exciting voltage is used. These measurements are of importance in the study of processes occurring in luminescent materials and are of practical value in determining the usefulness of luminescent materials as light sources. The current waveform produced by the applied sinusoidal voltage is markedly Instantaneous and avorage values of the power non-sinusoidal. absorbed are obtained by means of a galvanometer oscillograph method and the average values are compared with values obtained The accuracy of relative power by means of bridge measurements. measurements using the oscillograph is 5% and for absolute values The minimum value of power measured is 0.008 mW for 50  $^{\rm V}$ applied and the maximum is 100 mW for 1000 V applied. waveform is also nonsinusoidal and the nonlinearity increases with Card 1/2

Absorption of energy ...

S/051/62/013/004/009/023 E039/E491

inc. easing voltage. The ZnS-Cu, Al as well as the ZnS-Cu from two other sources used all contained chlorine and were in layers 0.03 to 0.04 mm thick. Measurements were made at room temperature using a 50 cycle voltage supply. A DDY 19 (FEU 19) photomultiplier calibrated against a thermopile was used for measuring luminescent energy yields giving a relative accuracy of 3% and an absolute accuracy of 30%. As the voltage is increased, the absorbed power for voltages of 200 to 275 V, comparable for all the phosphors. The bridge method gives a value of the yield some 25% lower than that determined by the oscillograph method. Maximum light efficiencies are 8 to 9 lumens/watt. The results are compared with theory and good agreement obtained. There are

SUBMITTED:

July 21, 1961

Card 2/2

ACCESSION NR: AT4001249

8/2504/63/023/000/0003/0063

AUTHOR: Georgobiani, A. N.

TITLE: Electroluminescence of crystals

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SOURCE: AN SSSR. Fizicheskiy institut. Trudy\*, v. 23, 1963, 3-63

TOPIC TAGS: electroluminescence, luminescence, crystal electroluminescence, electroluminescent crystal, zinc sulfide electroluminescence, electroluminescence excitation, electroluminescence capacitor, luminescent material, electrophosphor, phosphor

ABSTRACT: This review article deals first with general problems of electroluminescence of crystals, such as ionization by an electric field, impact ionization, the concentration of the electric field occurring during luminescence, and a classification of electroluminescent materials. Blectroluminescence of zinc sulfide and its use as a luminor is then described. Blectroluminescence was excited

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Card 1/3

ACCESSION NR: AT4001249

in capacitors with dielectric of pressed ZnS-Cu. Al (Cu = 5 x l  $10^{-3}$  and Al  $10^{-4}$ --2 x  $10^{-3}$  g-atom/g-mole) and the main brightness peaks identified. The temperature dependence of the critical voltage of the principal peaks of the brightness waves is discussed, along with the dependence of the maximum principal peak on the frequency and amplitude of the exciting voltage. The constant component and the average brightness of the luminescence are calculated. Various theories of the mechanism of excitation of electroluminescence are discussed. The energy absorption during luminescence is estimated and the energy yield of electroluminescence calculated. It is emphasized in the conclusion that although tests with single crystals will cast more light on electroluminescence, the information obtained in such tests is not directly applicable to powdered luminors. "I consider it my duty to thank M. V. Fok for reading the manuscript and for valuable remarks." Orig. art. has: 72 formulas, 38 figures, and 1 table.

Card 2/3

ACCESSION MR: AT4001249

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AM SSSR)

SUBMITTED: 00

DATE ACQ: 30Nov63

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NO REF SOV: 054

OTHER: 072

Card 3/3

AFFTC/ASD/SSD \$/0051/63/(15/001/0095/0099 Livova Ye. Yu. : Fok. M.V. dependence of the electroluminescence y eld Bource: Optika i spektroskopiya, v.15, no.1, 1963, 95-99 TOPIC TAGE: electroluminescence, EnS-Cu-Al phosphor Abstract: Earlies the nuthors (Optika 1 spektrokopiya, 13, 164, 1962 and Ibid., 9, 775 1960) invest gates the voltage dependence of the elect: oluminescence yield of ZnS: Cu: Al phosphor filled capacitors. In the present work, using the same experimental technique (described in the first reference) they investigated the temperature dependence and the voltage dependences at differen; temperatures of the electroluminescence of the same phosphors. The phonon mechanism is considered. Curves for the energy absorbed by the phosphor-filled capacitor as a function of the voltage for h = 1,140K and 4000K are given; as are plots of the electroluminescence yield versus volltage at 114, 294 and 3990K, and absorbed energy, electroluminescence brightness and yield as a function of the temperature (see Enclosure 1). The authors arrive at the following empirical formula for the brightness:

Accessive in arboxals  B(f)=B(f)=V  Where I is the temperature, Vis the voltage and by is a coefficient. The general conclusion is that the electroluminescent cell is a rather complicated electric system and that consequently a more precise model is necessary to obtain better agreement between theory and experiment. Orig.art.has: B formulas, I table and 4 figures.  ASSCCIATION: none  BUBLITIED: 269-162 DATE ACQ: 30Jul63 ENCL: 01  SIBSCOMS: DE NO.REF SOV: 006 OTHER: 000	11.133.02.63			
The Tile the temperature, Vis the voltage and by is a coefficient. The general conclusion is that the electroluminescent cell is a rather complicated electric system and that consequently a more precise model is necessary to obtain better agreement between theory and experiment. Orig.art.has: 8 f.>rmulas, 1 table and 4 figures.  ASSOCIATION: none  BURNITTED: 269ul62 DATE ACQ: 30Jul63 ENCL: 01			<b></b> ₩	0
ASSCCIATION: none  ASSCCIATION: none  DATE ACQ: 30Jul63  ENCL: 01	System and that con	ersture, Y is the voltage the electroluminescent co sequently a more precise	and by is a coefficiental is a rather complicate model is necessary to o	ted electric
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Accession NR: AP3005852

8/0351/63/015/002/0266/0268

AUTHOR: Georgobiant, A.N.; L'vova, Ye.Yu.; Fok. M.V.

5.8

Trule: Rol tion between the phases of the current, power absorbed and brightness

SOURCE: Op. 1 to pektroskopiya, v.15, no.2,1963, 266-208

APPIC TAGS steet oluminoscence, brightness wave., luminggent capacitor

ASTRACT: The authors investigated the same electroluminescent capacitors as earlier (A.N.Georgobiant and M.V.Fok, Opt. i spektro., 9, 1%, 1960) using a circuit with and without a compensating capacitance. The luminiscence was excited by a 50-ths sinusoidal voltage V at room temperature. A loop oscillograph was used to retord the insumntances values of V, the current I, the cower W absorbed by the capacitor, and the brightness B of the emitted electroluminescence. A typical group of oscillograms is shown in the Enclosure. Analysis of the oscillograms recorded under different conditions (mainly changes in compensating capacitance altering the

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	tion of ion its peak va curves. Or	lue before	the curren	e with thes	e concepts ch is born	the boat what			
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ACCESSION NR: AP4026361

z/0055/64/014/003/0167/0175

AUTHOR: Georgobiani, A. N.

TITLE: Electroluminescence of zinc sulfide

SOURCE: Chekhoslovatskiy fizicheskiy hurnal, v. 14, no. 3, 1964, 167-175

TOPIC TAGS: electroluminescence, zinc sulfide, zinc sulfide luminescence, luminophore, ZnS-Cu luminophore

ABSTRACT: The electroluminophore ZnS-Cu, Al with a copper concentration of 5 x 10<sup>-4</sup> to 10<sup>-3</sup> gram-atom/gram molecule and aluminum concentration of 10<sup>-4</sup> to 2 x 10<sup>-3</sup> gram-atom/gram molecule was investigated. Two types of electroluminescent capacitors were produced from the powders. They differed in the form of the dielectric. Since the luminophore in the electroluminescent capacitor was blooded with a dielectric, an alternating current voltage of sinusoidal and trapezoidal form was used. The trapezoidal voltage was shaped by an amplitude limiting block with "trimming" of the sinusoidal voltage. Author measured the absolute energy yield and its dependence upon voltage in a previous work (A. N. Georgobiani, Yu. Yu. L'vova and M. V. Fok, Optika i spektroskopiya 13 (1962, 564). The bridge method gives understated

Card 1/2

ACCESSION NR: AP4026361

values for the energy yield in comparison with the oscillographic. The maximum value for the energy yield measured by the author was q = 1.3%, which, for green light, corresponds to a luminous efficiency of about 7 Lm/W. Agreement of theory with experiment will evidently be better if it is to be assumed that the holes can withdraw from the luminescence centers under the action of the field. Inasmuch as the mechanism of their liberation is unknown, such a computation was not carried out. It is also certain that the granulometric composition of the luminophore exerts some effect on the measurement results. Orig. art. has: 3 figures and 6 equations.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedevs AN HSSR (Physics Institute, AN SSSR)

SUBMITTED: 11Ju162

DATE ACQ: 15Apr64

ENCL: 00

BUB CODE:

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no ref boy: 011

OTHER: 006

Card 2/2

VREDEN-KOHETSKAYA, T.O.; GEORGOBIANI, A.N.; GCLUBEVA, N.P.;
GRIGOR YEV, N.N.; THEVANDROV; M.P.; MORGENSHTERN, Z.L.;
PETUKHOVA, M.S.; RABINOVICH, N.Ya.; FOK, M.V.;
KHAN-MAGOMETOVA, Sh.D.; ANTONOV-ROMANOVSKIY, V.V., doktor
fiz.-mat. nauk, otv. red.

[Luminescence; a bibliographic index for 1947-1961] Liuminestsentsiia; bibliograficheskii ukazatel!, 1947-1961. Moskva, Nauka. Vol.2. 1964. 378 p. (MIRA 18:4)

1. Akademiya nauk SSSR. Sektor seti spetsial'nykh bibliotek.

APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514810003-9"

101

1. 26350W66 | EWY(1)/EWY(n)/T/EWP(t) IJP(c) ACC NE APED12501 SOURCE CODE: UR/0181/66/008/004/1273/1275 AUTHOR: Bochkov, Tu. V.; Georgobiani, A. N.; Chilaya, G. S. ORG: Physics Institute im. P. N. Lebedev AN SSSR, Moscow (Fizicheskiy institut AN SSSR) TITLE: Some electrical characteristics of zinc sulfide single crystals SOURCE: Fisika tverdego tela, v. 8, no. 4, 1966, 1273-1275 TOPIC TAGS: sinc sulfide, single crystal, electric property, crystal anisotropy ANSTRACT: The authors study the electrical characteristics of large ZnS single crystals grown from the malt at 850°C under inert gas pressure by a new method developed under the direction of L. A. Sysoyev. These are hexagonal crystals with no traces of cubic structure so that contact and surface phenomena have no effect on the electrical measurements. The specimens studied had dimensions of 4 × 48 mm. The temperature curve for electrical conductivity is approximated by two straight lines in lno and 1/T coordinates. The slope of the low-temperature line corresponds to an activition energy of 1.25 4 0.07 ev, while the high-temperature section corresponds to an energy of 1.8 \* 9.06 \*. This section may probably be attributed to natural conductivity since data in the literature give the thermal width of the forbidden band as

3.2 \* 0.2 ev. Extrapolation of the low-temperature section to room temperature gives

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	Bochkov, Yu.V.; Georgobiani, A.N.; Kisil*, I.I.; Sysoyev, L.A.	
institut	hysical Institute im. P.N.Lebedev, Academy of Sciences, SSSR (I t Akademii nauk SSSR)	
TITLE: Luminesc	Electroluminescence of bulk ZnS crystals /Report, Fourteenth cence held in Rigs, 16-23 September 1965/	Conference on
SCURCE:	AN SSSR. Izvestiya. Seriya fizichoskaya, v. 30, no. 4, 1966	, 628-632
conductories of the cry	The study was undertaken in view of the growing interest tors as representatives of the class of compounds with a broad alfide belongs in this category and is the most thoroughly study the basic conditions for electric measurements on semiconducts effects and adequate uniformity of the specimens. For the process of the growth of the specimens of the stocker and adequate uniformity of the specimens. For the process were grown from a melt in an inert gas by the Stocker and adequate uniformity of the specimens. For the process were grown from a melt in an inert gas by the Stocker and state of the single crystals was pronounced cleavage along the crystals were up to 30 mm in diameter and 100 mm long.	forbidden band. died electro- minophor did not ctors: absence of present work the parger technique; agonal specimens. or the (1120) planes

L 39773-66

ACC NR: AP6013068

showed that the crystals contained the following impurities: Cu about  $10^{-4}\%$ , Ni about  $5 \times 10^{-6}\%$ , Fe about  $10^{-4}\%$ , An about  $5 \times 10^{-6}\%$ , SO<sub>4</sub> under  $10^{-4}\%$ , and oxides under  $10^{-4}\%$ . The specimen plates were prepared as follows: the crystals were first oriented with reference to the cleavage plane and then wafers measuring  $3 \times 3$  mm and 2 mm thick were cut by means of a corundum disk. The wafers were etched in acid and provided with obmic contacts to eliminate surface effects. In the experiments measures were taken to minimize heating; these consisted in providing good heat conduction and using short exciting pulses (1.7 microsec) and a very low duty factor. The electroluminescence peaks at about 460 mm; the brightness is a linear function of the applied voltage. Further data are given on the ultraviolet electroluminescence spectrum of purer crystals. The experimental results are discussed in general terms; the emission is attributed to interband recombination. In conclusion, we desire to thank M.V.Fok for discussion of the results and valuable suggestions in the course of the work, V.K.Kostin for assistance in preparing the crystals, and A.N.Savin and G.G.Stolpovskiy for help in adjusting the electronic equipment. Orig. art. has: 4 figures.

SUB CODE: 20/

SUBM DATE: 00/

ORIG REI': 003/

OTH REF: 004

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L 15929-66

ACC NR: APBOD4429

SOURCE CODE: Ui/0051/66/020/001/0183/0184

AUTHOR: Bornkov, Yu. V.; Georgobiani, A. N.; Gershun, A. S.; Sysoyev, L. A.; Chilaya, G. S.

Viillaya, G. S.

42

CRG: none

TITLE: Ultraviolet electroluminescence of zinc sulfid:

SOURCE: Optika i spektroskopiya, v. 20, no. 1, 1966, 183-184

TOPIC TAGS: electroluminescence, zinc sulfide, single crystal, UV radiation

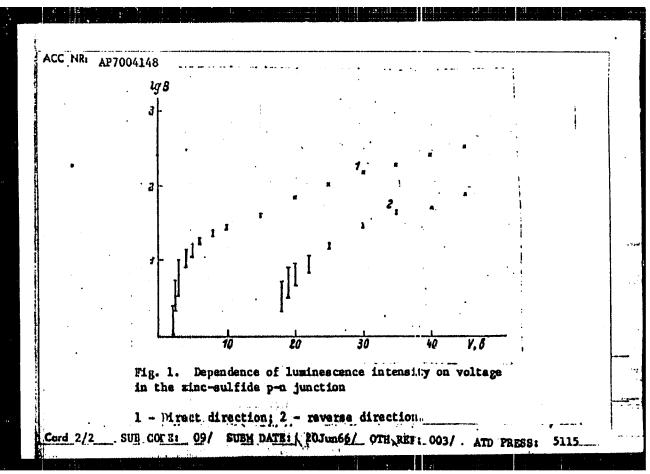
ABSTRACT: Ultraviolet electroluminescence was observed in pure single crystals of zinc sulfide prown from a melt under inert gas pressure. Specimens 150 µ thick were subjected to pulsed voltage with an amplitude of 4.5 kv, a duration of 1.7 µsec and a duty factor of 1.10. The voltage was applied through indium electrodes. The luminescence of the specimens is stable at a constant voltage and increases approximately exponentially with voltage. A voltage increase from 2.7 to 4.5 kv increases the luminescence in ensity by approximately one order of magnitude. It is assumed that this luminescence is due to recombination of electron-hole pairs created by

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ACC NR: AP7004148  AUTHOR: Georgobiani, A. N.; Steblin, V.	SOURCE CODE: UR/0051/67/022/001/0167/0168
ORG: none	
TITLE: Electroluminescent p-n junction	<b>!</b>
SOURCE: Optika i spektroskopiya, v. 22,	no. 1, 1967, 167-168
TOPIC TACS: semiconductor material, sem <i>をいっていいいいこうでものと</i> ABSTRACT:	iconductor device, pn junction, ZINC SULFINE
The fabrication of zinc sulfide p-n jure 650C in single-crystal ZnS-Cl is report p-n junctions can be maintained when we reverse directions. The dependence of shown in Fig. 1 in semilogarithmic scat directly, the luminescence appears at luminescence is proportional to the curspecimen. This demonstrates the inject of the junction is connected in reverse at 18 volts, probably because of the brart. has: 1 figure.	led. The electroluminescence of these oltages are applied in direct and luminescence brightness on voltage is le. If the p-n junction is connected.  1.2 volts. In this case intensity of trent passing though the investigated ion character of such luminescence.
Cord 1/2	UDC: 535.376



GEORGOBIANI, A.N.; GOLUBEVA, N.P.; LEBREZV, P.N.

Excitation of electroluminescence in alkali halide compounds. Chekhosl fig zhurnal 13 no.2:91-93 '63.

1. Physical Institute, Academy of Sciences of the U.S.S.R., Hoscow, U.S.S.R.

CEORGOBIANI, A.N.; L'VOVA, Ye.Yu.; FOK, M.V.

Energy absorption in electroluminescence. Opt. i spektr.

(MIRA 16:3)

(Luminescence)

Use of the methods of stollatical decision functions in determining the optimum parameters in a certain control problem. Soob. AN Gruz. SSE 35 no.1:23-28 Jl '64.

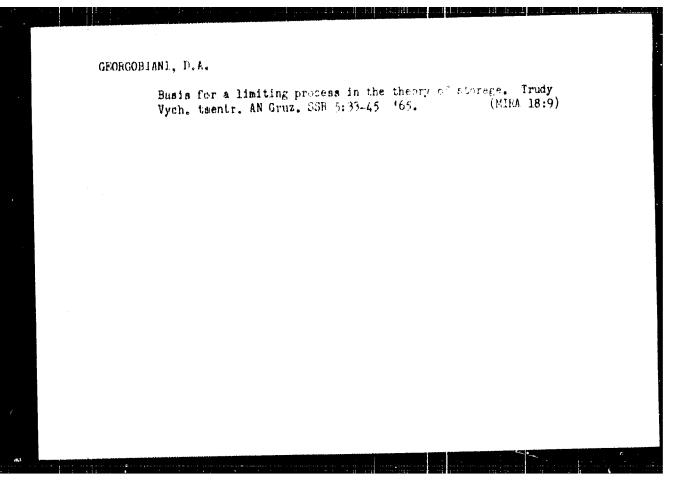
(MIRA 17:10)

1. Vychislitel'nyy tsentr AN GruzSSE. Fredstavleno chlenom-korrespondentom AN GruzSSE 1.P. Gokiyeli.

### GEORGONIANI D.A.

froof of the existence and uniquene a of stationary egodic distribution in a problem of the control of across, coob. AN Gruz. SSR 34 no.3:535-540 Je \*64 (MTRA 18:1)

1. Vychislatelinyy isenti AN Ormonoskay 198. Submitted Actober 2, 1963.



35787 S/120/62/000/001/032/061 E192/E582

24.6800

Georgobiani, T.P.

Temperature stabilizer for the effusion camera of AUTHOR: TITLE:

the ion source of mass spectrometers

Pribory i tekhnika eksperimenta, no. 1, 1962, PERIODICAL:

Temperature stabilization of the effusion camera during measurement of the intensity of ion currents in a mass spectrometer is of considerable importance since it determines the accuracy of the measurement. A stabilizer for the camera was designed and this is described in some detail. In this system the temperature of the effusion camera is measured by a platinum-platinum-rhodium thermocouple by the potentiometer method. The voltage which balances the emf of the thermocouple is taken from the potentiometer NNTH-1 (PPIN-1). The automatic recording potentiometer 300 -09 (EPP-09), having a sensitivity of 10  $\mu$ V/division is used as the null indicator; the sensitivity of the potentiometer permits the recording of the temperature changes of the camera of less than ± 0.5 °C. Temperature Card 1/B

S/120/62/000/001/032/061 E192/E382

Temperature stabilizer ....

stabilization is achieved in the following manner. The difference  $\triangle U$  between the voltage of the potentiometer PPTN-1 and the emf of the thermocouple (a deviation signal), which is produced by the temperature change in the camera, is converted into an AC signal by means of a vibrator; the signal is applied to an amplifier by means of an input transformer. After amplification the deviation signal is applied to a magnetic amplifier which controls the heater circuit of the camera; the amplifier increases or reduces the heater current, depending on the polarity of the deviation and changes the temperature of the camera in such a way that the deviation is compensated. The deviation-signal amplifier is illustrated in Fig. 2. It is seen that the amplifier consists of two AC stages based on a double triode, a parallel detector (the diode section of the diodepentode) and a DC amplifier based on the pentode and the output triode which feeds into the magnetic amplifier. The gain of the system without the magnetic amplifier is 2 x  $10^5$ . The

Card 2/4

Temperature stabilizer .... S/120/62/000/001/052/061 E192/E382

stabilizer covers the temperature range from  $400-1\ 200\ ^{\circ}$ C and was used in the investigations of P.A. Akishin, L.N. Gorokhov and L.N. Sidorov (Ref. 4 - Dokl. AN SSSR, 1960, 135, 113) and P.A. Akishin, Yu.S. Khodeyev (Ref. 5 - Zh. fiz. khimii, 1961, 35, 1169). The stabilizer was also employed with a double-effusion camera. There are 4 figures.

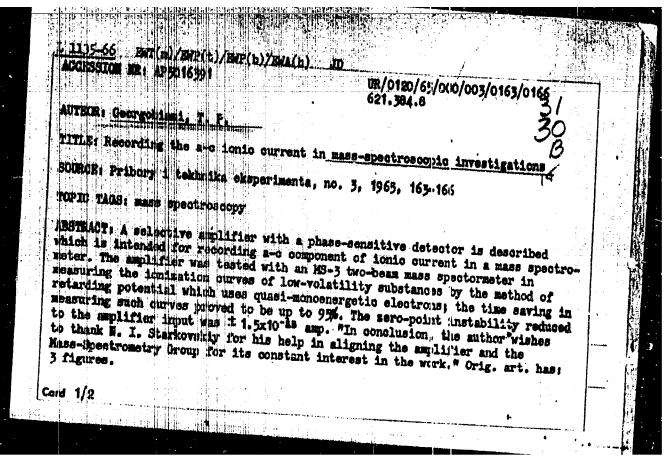
ASSOCIATION:

Khimicheskiy fakul tet MGU (Chemistry Division of MGU)

SUBMITTED:

June 26, 1961

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Investigation the process of the subtraction to the second tension to woolen and worsted learns. Telest, proc. 24 april 22-da. N. Pol. (22-da. N. Pol. (22-da. N. Pol.) (22-da. N. Pol.) (22-da. N. Pol.) (22-da. N. Pol.) (23-da. N. Pol.) (23-da. N. Pol.) (24-da. N. Pol.) (24-da. N. Pol.) (25-da. N. Pol.) (25-da.

RUSESKU, Al'fred [Rusescu, A.], prof.; DZHEORMANYAVU. Mirchya [Geormanianu, M.], kand.mad.nauk

Significance of pneumonediastinography in primary tuberculosis in children. Vest. rent. i rad. 35 no. 6:14-16 N-D '60.

(MIRA 14:2)

1. Is 1-y pediatricheskoy kliniki, Bukharest.

(TUBERCULOSIS) (PNEUMOMEDIASTINUM)

RUSESCU, A., prof.; MAIORESCU, M., dr.; GEORMANEANU, M., dr.; POPESCU, V., dr.

Relations between the Wissler-Fanconi syndrome and chronic polyarthritis in child an (Still's diseases, chronic evolutive polyarthritis). Med. intern. 13 no.12:1609-1615 D '61.

1. Lucrare efectuata in Clinica I de pediatrie "Emilia Irza", Buouresti.

(ARTHRITIS, RHEUMATOID in inf. & childh.)
(RHEUMATIC FEVER)

GEORGO BI ANI, M.:

CHERAIDER, Sh.M.: GRORGOBIABLE, H.I.

Spectrohelioscopic observations made on Mount Enception in 1941-1944.

Biul.Abast.astrofis.obser. no.15:169-260 '53. (MLRA 7:10)

(Sun)

GEORGOSPANI, Sh. W.

Spectrohelioscopic Observations on the Nount Fancti I on the Words 1941-1944. Byull. AN Georgia CON, No. 15, 1953, 196-260.

hesults of systematic observation of bright flooroli, filaments, and prominences in H alpha light are published. These observations were carried out by Sh. Chkhaidze, N. Georg biani, T. Hochlashvili, E. Chuvayev, D. Hhitarishvili. (EZhAstr, No 9, 1954)

SO: W-31128, 11 Jan 55

GEORGOBIANI, T. A.

Georgobiant, T. A. and Prokopenko, A. I. "The protection fo citrus fruit", Byulleten! Vsesoyuz. nauch. -issled. in-ta dhaya i subtrop. kul'tur, 1948, No. 3, p. 53-63, -Bibliog: p. 62-63

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No, 10, 1949).

CEORGOBIANI,

USSR/Human and Animal Physiology (Normal and Pathological).

T-6

Intestine.

Abs Jour

: Ref Zhur - Biol., No 16, 1958, 74887

Author

: Dzidzicari, T.D., Georgobiani, T.P.

Inst

Title

Some Data on the Motor Activity of the Small Intestine.

Orig Pub

: Fiziol. zh. SSSR, 1957, 43, No 2, 164-168

Abstract

: In dogs the loop of the small intestine (ISI) was taken out into a skin flap for a length of 10-15 cm and a fistula tube was placed into it. Movement of the stomach (S) and ISI were registered by balloons, as well as by oncograph, in which the skin flap with LSI were placed. Hunger period movements in the LSI were continued 15-30 minutes, periods of dormancy - 1-2 hours. Between the movements of the S and LSI full parallism was noted. Periods of movements of ISI coincided with periods of secretion of intestinal juice. Weak inflation of the

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Set Cortico-Visconal pathology in 1. P. Parler

USSR/Human and Animal Physiology (Normal and Pathologeneal). T-6
Intestine.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74887

balloon caused a construction of the musculature only of that section of ISI where it was found independent of the periodic activity. With the increase of the inflation, neverients were spread to the neighboring sections, and with very strong increases of pressure the invenents were stopped. During stimulation of the mechano-receptors of 3 contractions set in at the beginning in the S and in a white in ISI. By means of the "balloon" method periodic motor activity of the intestine cannot be studied since the balloon itself, being a stimulator, changes it. -- V.A. Shaternikov.

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- 75 -

Rader. What is rejert? Its linters, construction and new Carlie 2. Collinairev 1947 A7 p. (45-2010)
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GEORMANEANU, D., dr.; TEODORESCU, A., dr.; DOBRESCU, D.

Considerations on a case of typical nephrocalcinosis. Med. intern. 14 no.12:1515-1517 D '62.

 Lucrare efectuata in Policlinica de adulti, Craiova. (NEPHROCALCINOSIS)

RUMANIA

VARTIC, Dr. N.; GEOROGEANU, Dr. P.; and HICLEA, M., Veterinary Physician (Faculty of Veterinary Medicine) (Facultates de medicina veterinara,) Gluj.

"Treatment of Anthrax Abscesses"

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No. 5, May 66; pp 70-73.

Abstract: [English summary modified]: Direct injection of antibiotics (streptomycin and penicillin in saline) was found more effective when injected directly into the abacess cavity than the standard parenteral treatment with the same drugs in several cases in large domestic animals. 5 Rumanian references.

1/1

CEFFERT, Y., BURDUKOVSKIY, A.

Lumber - Standards

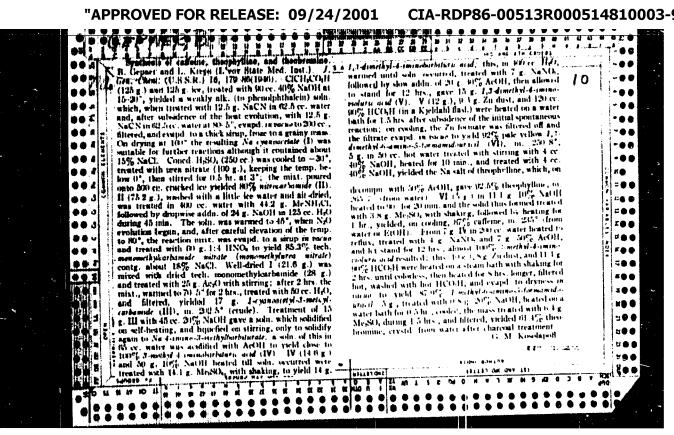
Method of planning lumbering operations. Les. prom. 12 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December XXXXX, Uncl.

V. C.PO. A. DURDURCUDKTI

"Methods of proximation planning." p. 65. (Polana, Vol. 9, no. 3, Mar. 1953, Praha, Szechoslovakia.)

So: Monthly List of Base European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.



ACC NR: AR6035063 SOURCE CODE: UR/0282/66/000/008/0002/0003

AUTHOR: Gepner, I. L.

TITLE: Construction materials for chemical equipment operating at high temperatures and pressures

SOURCE: Ref. zh. Khimicheskoye i kholodil'noye mashinstroyeniye, Abs. 8, 47, 13

REF SOURCE: KhISA. 2-y Mezhdunar, kongr. khim inzh. tekhn. khim. oborud. i avtomat., Marianske Lazne, 1965 g. S. l., 1965, Ye 3.1

TOPIC TAGS: chemical equipment, heat resistance, construction material

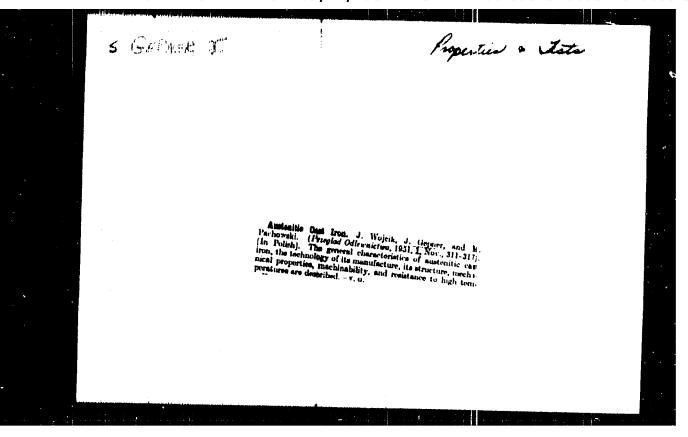
ABSTRACT: Materials used in the chemical industry can be divided in two groups:

1) nickel-aluminum-titanium-base alloys with a chromium addition for increased heat resistance, and alloys with additions of zirconium, tungsten, and tantalum for the manufacture of special equipment, and 2) materials with aluminosilicate fibers, reinforced plastics, and metals. Of interest are materials with a silicate fiber base and an aluminum binder. [Translation of abstract]

[NT]

SUB CODE: 11/

Card 1/1 UDC: 66.02.002.3



GEPNER-WOZNIEWSKA, Maria (Warszawa, Chocimska 5, Instytut Hematologii)

Catalase activity of erythrocytes in blood diseases. Polskie arch. med. wewn. 27 no.9:1183-1196 1957.

1. Z Klinicznego Oddzialu Chorob Wewnetrznych i Pracowni Biochemii Klinicznej Kierownik: doc. dr med. E. Kowalski. Instytutu Hematologii Dyrektor: doc. dr. med. A. Trojanowski.

(CATALASM, in blood,

erthrocytes, in various blood dis. (Pol)) (BLOOD DISEASES,

erythrocyte catalase activity in (Pol))

#### GEPNER-WOZNIEWSKA, Maria

Activity of glutamic-exaleacetic transaminase of the erythrocytes and plasma of preserved blood. Pol. arch. med. wewn. 32 no.10:1213-1218 162.

1. Z Oddziału Chorob Wewnetrznych Instytutu Hematologii Kierownik: dr med. S. Pawelski Dyrektor: doc. dr med. A. Trojanowski.

(ASPARTATE AMINOTRANSFERASE) (ERYTHROCYTES)

(BLOOD PRESERVATION)

GEFNER-WOZNIEWSKA, Maria; TRACZYK, Zdzislawa

Activity of glutamic-exalic-acetic transaminase in the erythrocytes and serum in blood diseases. Increase of the activity of glutamic-exalic-acetic transaminase in the erythrocytes in hemolytic syndromes. Polski tygod. lek. 14 no.32:1473-1479 10 Aug 59.

1. (Z Klinicznego Oddzialu Chorob Wewnetrznych i Pracowni Biochemii Klinicznej: kierownik - doc. dr med. E. Kowalski, Instytutu Hematologii, dyrektor - doc. dr med. A. Trojanowski)

(BLOOD DISHASHS, metab.) (TRANSAMINASHS, blood)

GEPNER-WOZNIEWSKA, Maria; LEWICKA, Teresa; AFEK-KAMINSKA, Maria

Aplasia of the erythroblastic system co-existing with a benign tumor of the thymns. Pol. arch. med. wewnet. 34 no.3:367-372 \*64

1. Z Oddzialu Ghorob Wennetrznych Instytutu Hematologii w Warszawie (kierownik: doc.dr.med. S.Pawelski) oraz ze Szpitala Zakaznego Nr.1 w Warszawie (Dyrektor: dr.med. A. Krysztof).

\*

GEFNER-WOZNIEWSKA, Maria; KACPERSKA, Elzbieta; SOBUZINSKA-CZECHUWSKA, Zofia;

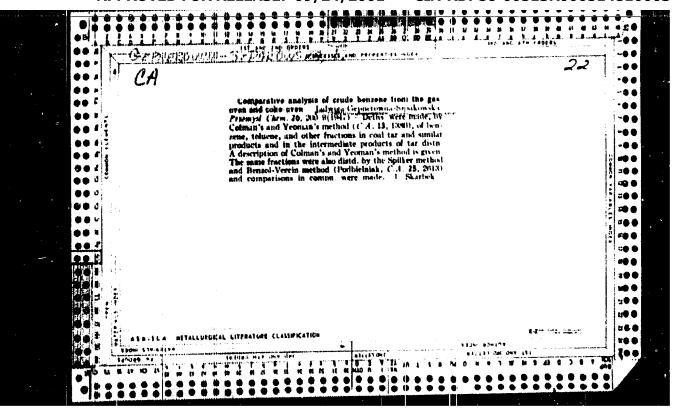
Primary auto-immune hemolytic anemias. Prolonged clinical, hemato-logical and serological observation. Therapeutic results. Pol. arch. med. wewnet. 34 no.8:1065-1072 \*64.

1. Z Oddziału Chorob Wewnetrznych Instytutu Hematologii (Kierownik: doc. dr. med. S. Pawelski); z Oddziału Hematologicznego (Kierownik: prof. dr. med. W. Iawkowicz) i z Zakładu Srologii (Kierownik: doc. dr. med. H. Seyfriedowa).

# GEPNER-WOZNIEWSKA, Meria

Vitamin B 6 metabolism and its deficiency in man. Pol. tyg. lek. 20 no.10:367-370 8 Mr 165

1. 2 Oddzialu Chorob Wewnetrznych Instytutu Hematologii (Kierow-nik: doc. dr. med. S. Pawelski).



BORISHMKO, V.G.; BOTHKO, S.A.; GEPTA, S.A.; TAYMUMI, I.E.; GAMAZOVA, L.B.

Reasons for the increased brittleness of strips of transformer steel. Metallurg 10 no.8:25-27 Ag '64.

(MIRA 17:11)

1. Taved 'Zaporozhstal'".

<u>l Chart-67</u> E.T(m)/N-T(t)/NTI/N-P(k) ACC NG AM-6031515	žá P(e) - ∂u/im source core: - ur/obe3/66/000/004/0035/0036
of technical sciences); Sukonnik, I. M.;	micul sciences); Chekmarev, I. A. (Candidate Geppa, S. A.; Serbin, I. V.; Yermolov, I. V.; V. Kh.; Kirvalidze, N. S.; Pasternak, N. M.
ORG: none	58
TITLE: Improving the plasticity of Khld SOURCE: Metallurgicheskaya i gornoruda:	N10T tube steel by vacuum-arc melting
	metal Tuke / Khieniot Steel
ABSTRACT: The plasticity of conventions Kh18x10T steel was tested by rolling contension tests, both at 1000—1300C. It reduction depends primarily upon the accontent cannot be easily pierced at a to the melting method. The content of impuls torsion tests, plasticity was found as much as vacuum are melting yields steel	ally are melted and vacuum are melted aical specimens in a piercing mill and by was found that in piercing, the critical phase content. Metal with a high α-phase emperature of 1200C or higher regardless of arities and gases is of secondary importance.  To depend mainly upon the metal purity. In-
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tent up to a co steel, but an i 2 figures.	rtain l .ncreaso	imit does over thi	not sul s limit	bstantially lowers the	affect steel	the plasticity plasticity.	of Kh18N10T Orig. art.	has: [ND]
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SZYMIK, Franciszek, dr inz.; GEPPART, Andrzej, inz.

Research results on the wind load of the overhead line conductors in Poland. Energetyka Pol 16 no.12:Suppl.:

Biul Inst energ 4 no.11/12:44-48 D \*62.

1. Zaklad Sieci Elektrycznych, Katowice.

DROZDOV, H.G., professor, doktor tekhnicheskikh nauk; FRIVEZENTSEV, V.A., professor, doktor tekhnicheskikh nauk; KOMAROV, N.S., dotsent, kandidat tekhnicheskikh nauk; BIUNIN, N.V., dotsent, kandidat tekhnicheskikh nauk; SHUNIKIY, I.I., dotsent, kandidat tekhnicheskikh nauk; KREMLEV-SKIY, P.A., kandidat tekhnicheskikh nauk; GEPFH, A.P., inshener; ALEK-SANDROV, N.V., professor, doktor tekhnicheskikh nauk; TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; EYGENSCH, L.S., professor, doktor tekhnicheskikh nauk; EYGENSCH, L.S., professor, doktor tekhnicheskikh nauk; STEFANOV, V.S., dotsent, kandidat tekhnicheskikh nauk; MAGIDSON, A.O., inzhener.

"Exience of electrical materials." M.M.Nikhailov. Reviewed by N.G. Drosdov, and others. Elektrichestvo no.3:93-94 Mr 154. (MERA 7:4)

1. Moskovskiy energeticheskiy institut im. Molotova. 2. Vsesoyuznyy zaochnyy energeticheskiy institut.

(Electric insulators and insulation) (Electric conductors)

GEPPE A.P.

AUTHOR TITLE

105-6-26/26 Eng. A.P. GEPPE, Eng. A.O. MAGIDSON G.I. Rabchinskaya. "Radiotechnical Working Materials". 2. revised edition, 328 pages, price Rb. 7.65, published by Gosenergoizdat 1956. Licensed by the Department for Instructional Institutes of the Ministry for the Radio Industry as a text book for technical schools MRTP. (G.I. Rabchinskaya. Radiotekhnicheskiye materialy. Vtoroye izdaniye, pererabotannoye. 328 ctr., ts. 7 rub. 65 kop. Gosenergoiadat, 1956. Dopushcheno Upravleniyem uchebnymi zavedeniyami Ministerstva radiotekhnichesikoy promyshlennosti v kachestve uchebnika dlya tekhnikumov MRTP. - Russian)

PERIODICAL

Elektrichestvo 1957, Nr 6, pp 95-96 (U.S.S.R.)

ABSTRACT

The above is a book review. The book consists of the following parts:

1) Working materials for electric insulation.

2) Semiconductors.

3) Conductors.

4) Magnetic working materials. Besides, 8 laboratory works are described.

CARD 1/2

105-6-26/26

G.I. Rabchinskaya. "Radio technical Working Materials", 2. revised edition, 328 pages, price Rb. 7.65, published by Gosenergoizdat 1956. Licensed by the Department for Instructional Institutes of the Ministry for the Radio Industry as a text book for technical schools MRTP.

The book is widely criticized and all deficiencies are described in detail. They mainly concern the arrangement of the matter dealt with, style and expression, as well as cases of technical inaccuracy and errors.

ASSOCIATION: Moscow Institute for Energy "Molotov" and ALLUNION Institute

of Energeties for instruction by Correspondence.

PRESENTED BY: -

SUBMITTED: AVAILABLE:

Library of Congress.

CARD 2/2

105-58-3-15/31

AUTHOR:

Geppe, A. P. , Engineer

TITLE:

On the Surface Resistance of Dielectric Substances (O poverkhnostnom soprotivlenii dielektrikov)

PERIODICAL:

Elektrichestvo, 1958, Nr 3, pp. 60 - 65 (USSR)

ABSTRACT:

Although the specific surface resistance  $g_S$  beside  $\epsilon$ ,  $g_V$ ,  $t_S$  of and  $E_{cond}$ . - is one of the five fundamental characteristics of electric properties of dielectric substances, it has hitherto been insufficiently investigated, and the conception of "surface-electroconductivity" has not been defined exactly. Also the physical meaning of the surface electroconductivity  $\gamma_S = 1/9_S$  is not clear. The fundamental equation  $R_S = S_S b/\ell$  is applied without sufficient physical proof. The surface current (leakage current on the surface) represents an important starting point for a theoretical investigation and for the measurement of the value of surface-electric con-

ductivity. In practice the current passing on the one side

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105-58-3-15/31

On the Surface Resistance of Dielectric Substances

of the insulation surface between the electrodes, must be known, and this current is to be taken for the surface ourrent without limiting its domain of passage by a layer of any thickness. It is of importance that such a formulation provides for the necessity to consider the electrode dimensions (width and length) in determining the surface current. Based on this formulation the conception "surface electric conductivity", as electric conductivity of dielectric substances between the electrodes fitted to one and the same side of the surface, can be defined. Then two very different cases are investigated. 1) The electroconductivity of the surface- and interior layers of the material is equal. 2) On the surface of the dielectric substance a layer with an increased conductivity, compared with the interior domain, is present. - The equation (2) is derived, which considers the effect of the electrode dimensions and of the distance between the electrodes on the value of the surface resistance of dielectric substances, in the case of the absence of a layer with increased conductivity on the surface of the dielectric substance. The current between the electrodes (which are fitted to one surface side) here passes through the entire mass of the material and not only in the thin surface.

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On the Surface Resistance of Dielectric Substances

layer. In the investigation of the second case the physical meaning of the equation  $\gamma_S$  = 1 $\beta_S$  becomes evident. In the form of the equation (7)  $\gamma_S = n_{\text{surface}}$ . K.q it obtains its final shape. - n denotes on and indicates the number of ions in the surface range in an area of 1 cm2 (surface-ion--density) K denotes the ion mobility. q denotes the charge of the ion. Summarizing, it is stated that the measurement of the surface resistance is to be carried out by means of spherical electrodes of exact and certain dimensions. The method of determining  $R_S(\S_S)$  recommended in GOST 6433-52 is incorrect. There are 5 figures and 7 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy energeticheskiy institut

(Moscow Institute for Power Engineering)

S JMITTED:

July 4, 1957

44. Card 3/3

nu commerciality is a manager of the contract of the

(MIRA 12:10)

GEPPE, A.P., inzh., assistent Effect of dot-size defects on the insulation-disruptive voltage level for enamel wire. Trudy VZEI no.9:250-255 \*58.

(Electric insulators and insulation)

GEPPE, A. P. Cand Tech Sci -- (diss) "Study of special heat-resistant enamel conductors and several methods of electrical testing." Leningrad, 1960, 17 pp, (Min Higher and Secondary Specialized Education, RSFSR, Leningrad Electrical Engineering Inst im V. I. Ulyanov (Lenin), 200 copies, (KL, 31-60, 141)

GEPPE, A.P.; TERNOVSKAYA, G.V.; ROZOVSKAYA, G.D.; NIKOLOTOVA, Ye.E.

Changes occurring in some electric properties of rubber during its swelling in the solvents. Kauch. i rez. 22 no.9:17-19 S '63.

(MIRA 16:11)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

til krin då sammen grunner	Intratissue oxygen therapy in paradentosis. Stomatologiia 40 (MIRA 14:11) no.4:93-95 Jl-Ag '61. (OXYGEN_THERAPEUTIC USE)
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## GEPPERT, Wlodsimiers

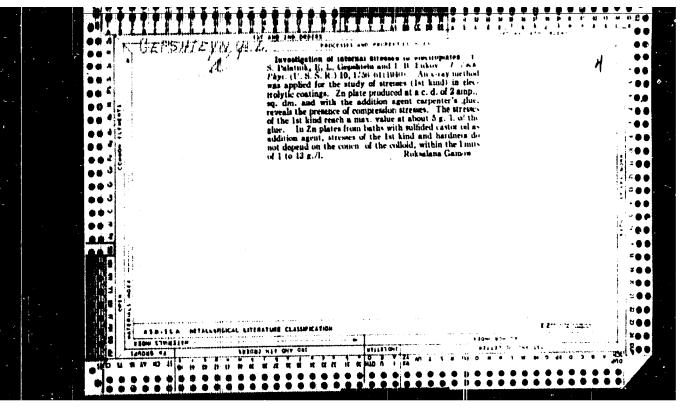
New achievements in the midtown housing construction. Architektura Pol no.11/12:449-455 '61.

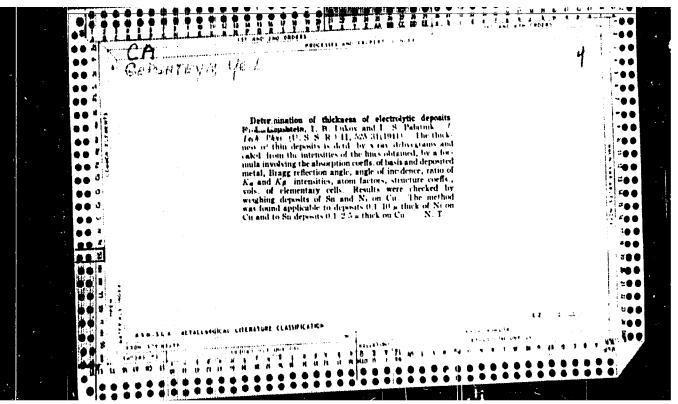
CRPSHTEN, N. A.

I RJ-67 (Synthesis and transformations of vinyl ethers of sthanolamines. I.

Vinylation of monethanolamine) Sintem i prevrashcheniia vinilovykh efirov estanolaminav Soobshchenie I. Vinilirovanie monoetanolamina.

IZVESTIIA AKADEKII MAUK SSSR. OTDELENIE KHIMICHESKIKH MAUK (3): 328-333, 1951





IEFIMENEO, V., zasluzhennyy master sporta, rekordsmen Sovetskogo Soyuza po aviatsionnym vidam sporta; CEPPENER, I., sportsmenka pervogo razryada, rekordsmen Sovetskogo Soyuza po aviatsionnym vidam sporta; DROZHZHIN, N., master sporta, rekordsmen Sovetskogo Soyuza po aviatsionnym vidam sporta; METIAKHS, M., master sporta, rekordsmen Sovetskogo Soyuza po aviatsionnym vidam sporta; SOLOV YEVA, I., master sporta, rekordsmen Sovetskogo Soyuza po aviatsionnym vidam sporta.

Let us open an account of Spartakiada records. Kryl.rod. 11 no.11: 2 H \*60. (MIRA 13:10)

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APPROVED FOR RELEASE: 09/24/2001

POZIETEVA. A.G.; GEPSHTEYN, Ye.M.

Reduction of pyridine and its homologs on the dropping-mercury electrode. Zhur. Obshchey Khim. 22, 2065-70 '52. (CA 47 no.18:9325 '53)

1. Eastern Coal Chem. Inst., Sverdlovsk.

NOVIKOV, N.N.; GEPSHTEVIL KAMERASEREBRYAKOVA, Ye.K.; GUREVICH, B.S.

Gomposition of coal tar from the coals of the Kuznetsk Basin. Koks
i khim.no.8:36-40 '56. (MIRA 10:1)

1.Vostochnyy uglakhimicheskiy institut.
(Misnetsk Basin--Coar tar)

AUTHOR:

Gepshteyn Ye M.

SOV/68-59-3-12/23

TITIE:

Production of Pure Products from Light Pyridine Bases (Polucheniye chistykh produktov iz legkikh

piridinovykh osnovaniy)

PERIODICAL: Koks i Khimiya, 1959, Nr 3: pp 49-53 (USSR)

ABSTRACT:

During the last few years VUKhIN developed methods suitable for a low tonnage production of β and γ picoline, 2,6- and 2,4- lutidine and 2,4,6- collidine of reagent's purity from raw light pyridine bases. The construction of an appropriate plant on the Nizhniy Tagil Works is being planned. A description of the method of separation of the above bases is given. The principle of the method is based on successive separation of 2,6- lutidine, β and γ picolines, by selective precipitation of 2,6-lutidine from β n coline fraction is

precipitation of respective complex compounds. The separation of 2,6-lutidine from β picoline fraction is done by the precipitation of a complex with urea (ref 1) which is filtered off. From the filtrate β picoline is precipitated by the formation of a complex with copper

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